

## 2SC3176

# **CRT Horizontal Deflection Output Applications (with Damper Diode)**

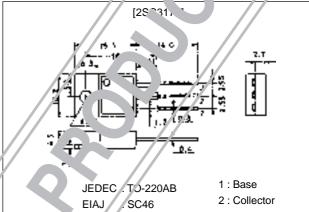
#### **Features**

- · Fast switching speed.
- · Especially suited for use in high-definition CRT display (V<sub>CC</sub>=12 to 24V).
- · Wide ASO.

### **Package Dimensions**

unit:mm

2010C



3 : Emitter

## **Specifications**

#### **Absolute Maximum Ratings** at Ta = 25°C

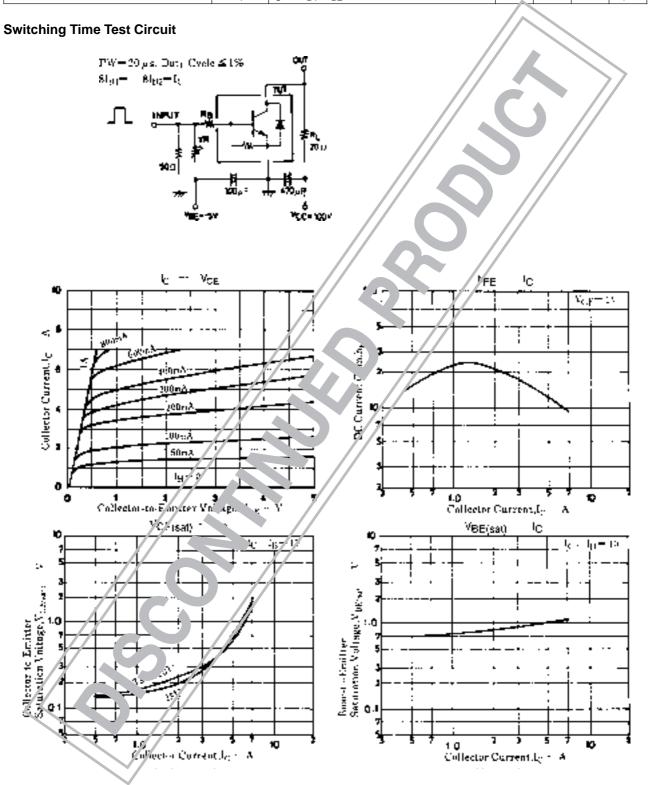
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCPO		400	V
Collector-to-Emitter Voltage	VCEO		200	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	l <sub>C</sub>		7	Α
Collector Current (Pulse)	ICP		12	Α
Base Current		///	4	А
Collector Dissipation	°C 1. 25°C		50	W
Junction Temperature	Ti	77	150	°C
Storage Temperature	Tsis	//	-55 to +150	°C

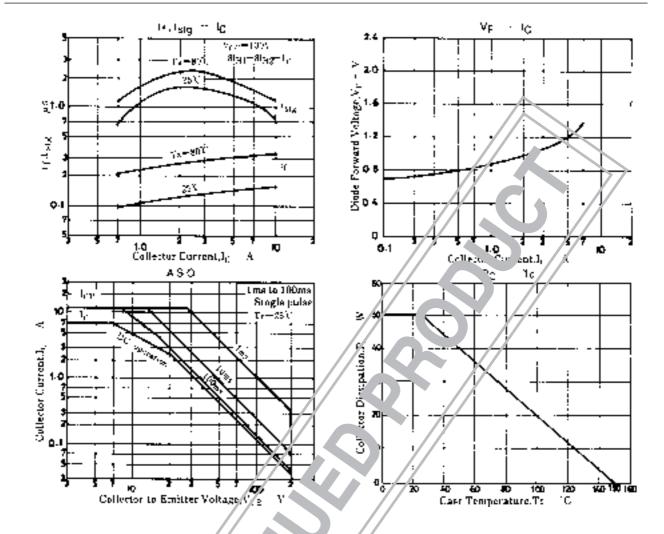
#### **Electrical Characteristics** at Ta = 2x

Parameter	Symbol	Conditions	Ratings			Unit
1 diameter	Symbol	Conditions	min	typ	max	Offic
Collector Cutoff Current	ICBO	V <sub>CB</sub> =200V, I <sub>E</sub> =0			100	μΑ
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =6V, I <sub>C</sub> =0			400	mA
DC Current Gain	hr.E1	V <sub>CE</sub> =1V, I <sub>C</sub> =1A	15			
	nr E2	V <sub>CE</sub> =1V, I <sub>C</sub> =5A	8		40	
Gain-Bandwidth Product	fT	V <sub>CE</sub> =10V, I <sub>C</sub> =0.5A	10	40		MHz
Collector-to-F.mi'.ter Satur. on Jita 3	VCE(sat)	I <sub>C</sub> =5A, I <sub>B</sub> =0.65A			1	V
Base-to-Ernitter Satura. Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =5A, I <sub>B</sub> =0.65A			1.3	V

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	J J
Collector-to-Base Breakdown Voltage	V(BR)CBO	I <sub>C</sub> =1mA, I <sub>E</sub> =0	400			V
Diode Forward Voltage	VF	I <sub>F</sub> =5A			1.5	V
Fall Time	t <sub>f</sub>	I <sub>C</sub> =5A, I <sub>B1</sub> =-I <sub>B2</sub> =0.625A			0.5	μs





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